## **Technical Information**

Page 1 of 2

TI/EVF 1087 e November 2012 **Plastic Additives** 

## The Chemical Company

 $\ensuremath{\mathbb{R}}$  = registered trademark of BASF SE

## Tinuvin<sup>®</sup> XT 100

## High performance light stabilizer system

Characterization	Tinuvin XT 100 is a novel, high performance light stabilizer system based on high molecular weight hindered amine NOR™ light stabilizer.	
	It is a cost effective UV/thermal stabilizer for agricultural film applications, such as green	
Chemical name	Hindered amine light stabilizer	
Applications	Agriculture films.	
Features/benefits	Tinuvin XT 100 is a cost effective light stabilizers designed to provide stabili- zation to agriculture films for a longer lifetime. It shows a good performance even in presence of agro-chemicals such as pesticides, insecticides or soil disinfections.	
Product forms	Code: Appearance:	Tinuvin XT 100 FF white to off-white granules
Guidelines for use	UV stabilization of greenhouse films UV stabilization of mulch films	0.2-2% 0.2-2%
Physical properties	Melting range Density (20 °C) Bulk density	softening range 90–120 °C 1.05 g/cm <sup>3</sup> 0.507 g/ml
	<b>Solubility (20–25 °C) % w/w</b> Dichloromethane Tetrahydrofurane Water n-Octanol Isopropanol	48 48 <1 3 2
	Volatility Weight Loss (% w/w) 0.3 0.4 0.6 1.4	Pure substance; TGA; heating rate 10 °C/min in air Temperature (°C) 200 230 250 280

Handling & Safety	Tinuvin XT 100 requires no special safety measures, provided the usual precautions for handling chemicals are observed. Avoid dust formation and ignition sources.
	For more detailed information please refer to the material safety data sheet.
Important notes	<ol> <li>Use of Tinuvin XT 100 light stabilizer in combination with flame retardants may constitute infringement of Australian Patent No. 735643 or/and US Patent No. 5,393,812 and of any existing equivalent patents or any patents granted on equivalent patent applications in other countries.</li> <li>Please be aware that the presence of BHT antioxidant in plastic articles containing Tinuvin XT 100 can give rise to discoloration if the article is stored in absence of light. This effect normally disappears upon UV exposure without significantly affecting the light stabilization properties of Tinuvin XT 100. Antioxidants like Irganox<sup>®</sup> 1010 and Irganox 1076 do not give rise to such effect in normal conditions.</li> </ol>
Note	The descriptions, designs, data and information contained herein are presented in good faith, and are based on BASF's current knowledge and experience. They are provided for guidance only, and do not constitute the agreed contrac- tual quality of the product or a part of BASF's terms and conditions of sale. Because many factors may affect processing or application/use of the product, BASF recommends that the reader carry out its own investigations and tests to determine the suitability of a product for its particular purpose prior to use. It is the responsibility of the recipient of product to ensure that any proprietary rights and existing laws and legislation are observed. No warranties of any kind, either expressed or implied, including, but not limited to, warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth herein, or that the products, descriptions, designs, data or information may be used without infringing the intellectual property rights of others. Any descriptions, designs, data and information given in this publication may change without prior information. The descriptions, designs, data and information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the descriptions, designs, data or information given or results obtained, all such being given and accepted at the reader's risk.

November 2012

BASF Schweiz AG Performance Chemicals/Plastic Additives Klybeckstrasse 141 4057 Basel, Switzerland